

PROJECT: Library Document

DATE: February 2014

Johnstone's Stormshield Render System MaintenanceHigh Performance Basecoat & Silicone Enhanced Render Finish**Basic System details:**

This Johnstone's Stormshield system is designed for application direct to suitably prepared masonry substrates.

Johnstone's Stormshield High Performance Render Basecoat is applied to a depth of 10mm, with a layer of Johnstone's Stormshield Reinforcing Mesh Cloth embedded in the basecoat. Basecoat is then primed with Johnstone's Stormshield Silicone Enhanced Primer before application of Johnstone's Stormshield Silicone Enhanced Render in either 1.0mm or 1.5mm aggregate size.

For full system details including application advice please contact PPG directly on the numbers provided, through your local Technical Sales Representative or by calling **01924 354 354**. All contact details and additional information can be found on our website: www.johnstonestrade.com

Regular System Inspection:

The system should be regularly inspected for signs of damage or wear. Inspections should be **at least annually** to prevent areas of concern worsening before remedial actions are taken.

It is possible to conduct these visual inspections on typical properties from ground level, however on buildings in excess of 3 stories access to upper floors may be required.

All areas of concern (where there is suspicion of damage or system defect) will require a closer inspection with suitable access equipment to identify the concern and allow for remedial action to be taken.

Cleaning:

All external render systems will gather dirt, contaminants and possibly moss/ algae/ lichen over time. This is a normal part of the aging or weathering process for external wall surfaces.

It is possible to clean Johnstone's Stormshield Silicone Enhanced Render with the use of water and a soft bristled cleaning brush. On stubborn marks or dirt deposits mild detergent may be used to work into the dirt before washing away with water. Always apply any detergents to a small hidden area before use to check for suitability.

Green surface growth such as moss, lichen and algae can be removed if required by using Manger's Fungicidal Wash diluted as per instructions. This should be applied to the area to be treated, left to work and then thoroughly washed away with clean water in line with product instructions. For details on where to obtain this product from please see our section on decorating in this maintenance document.

PLEASE NOTE: Abrasive or aggressive cleaning methods should not be used- do not scrub render surface, use any form of strong detergent, acid wash or abrasive cleaning device. Do not power wash render.

SYSTEM MAINTENANCE

If further assistance or advice is required please contact PPG for assistance. If you are in any doubt about cleaning material or methodology suitability please ask PPG for advice.

Decorating:

After a period of time render system may have weathered to the extent where over painting is required. Over painting will provide an attractive make-over for the render and in addition will protect the render system and prolong its life.

Johnstone's Stormshield Silicone Enhanced Render has been developed to be fully compatible with the wider Johnstone's Stormshield range of masonry paints. All Stormshield Masonry Paints are BBA approved and their use will not compromise render system performance or invalidate any render system warranty in place.

Full render paint specifications are available on request. Please contact PPG for additional information or support.

To locate a stockist please visit www.johnstonestrade.com

We can match the masonry paint required to the same colour as your render or provide a new colour from a massive range offered. Masonry paints offered are:

- Stormshield Smooth Masonry Paint
- Stormshield Textured Masonry Paint
- Stormshield Jontex High Textured Masonry Paint
- Stormshield Pliolite Smooth Masonry Paint
- Stormshield Self Cleaning Smooth Masonry Paint

In addition Johnstone's also offer a massive range of additional exterior and interior paints.

Repair:

If areas of defect or damage are identified, conduct a further assessment of the damage and repair as per below:

Surface damage/ defect to Silicone Enhanced Render Finish only

If inspection identifies an area where silicone enhanced render is damaged or has come away from the basecoat, but basecoat is still in place and sound, remove/ scrape away/ cut back the damaged Silicone Enhanced render to a point where all damaged material is removed and render remaining is sound. Clean area to be recoated to ensure any loose or flaking material is removed. Area should be thoroughly clean and dry prior to proceeding.

Prime the area to be repaired with Johnstone's Silicone Enhanced Render Primer and allow to dry before applying Johnstone's Stormshield Silicone Enhanced Render to the area. Apply the render carefully into the existing render and take care to maintain a finish to match original application.

Through system damage/ defect to render system

If inspection identifies an area where there is damage of defect in the render system revealing the masonry substrate or reinforcing mesh in the basecoat, it will be necessary to cut back the damaged area to the substrate beyond the area of concern in a square or rectangular shape. Use a suitable angle grinder to cut clean lines through the render and mesh cloth and remove damaged section without causing additional damage to the render. Take care if drilling through the render system to ensure drill bit does not snag or catch in the reinforcing mesh. Do not use a hammer drill setting as this may further crack or damage the render.

SYSTEM MAINTENANCE

Clean area to be recoated to ensure any loose or flaking material is removed and area is thoroughly clean before applying Johnstone's Stormshield High Performance Render Basecoat. Apply basecoat in two passes incorporating a reinforcing mesh layer to the same depth as the surrounding render and ensure a good bond between original render and new material.

Finish the basecoat as per application instructions to a plain face with a sponge float and allow basecoat patch to fully cure before proceeding.

Prime the area to be repaired with Johnstone's Silicone Enhanced Render Primer and allow to dry before applying Johnstone's Stormshield Silicone Enhanced Render to the area. Apply the render carefully into the existing render and take care to maintain a finish to match original application

Cracking in render system

Small surface cracks in the render system can be identified and treated as per surface damage instructions above.

Cracks that penetrate the full render system require further investigation as renders are highly unlikely to crack unless original movement or cracking has occurred in the masonry substrate. If this occurs please consult PPG for technical support as render repairs will not provide a suitable or long term solution and movement joints may need to be installed or causes of substrate movement addressed.

Large areas of defect/ areas of concern/ property specific issues

If large areas of the render system appear to be defective please contact PPG immediately. If you have concerns about a repair or defect you are undertaking please contact PPG for advice. Additionally properties may have unique requirements, issues or detailing. In these situations contact PPG.

Installation of external fixtures to Johnstone's Stormshield render system

Avoid using hammer/ percussion settings when drilling through render to avoid damage or cracking. Be careful to avoid snagging mesh cloth in drill bit and damaging render.

Always ensure any object to be fixed to the outside of a property post installation of a render system is fixed back into the masonry substrate and not to the render system.

Apply suitable fixings for the objects being mounted to the wall to minimise potential of object moving and damaging the render system.

Always avoid over-tightening fixtures to render system as this may cause render to crack. Apply a mastic check to the rear of objects to prevent water penetration and to cushion the render from the object being fixed.

Wherever possible always ensure all fixings pushed through the render system into the substrate do not allow water ingress by applying a mastic check to the fixing and around the fixing hole.

PPG Architectural Coatings Contact Information

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